7.4.3 Efficiency Standards for Commercial Air Conditioners and Heat Pumps (1)			
7.4.3 Emclericy Standards for Commercial	All Conditioners and rieat run	ips (1)	
Type	Cooling Capacity (Btu/hr)	Category (2)	Efficiency Level
Small commercial package air conditioning	<65,000	AC	SEER = 13.0
and heating equipment (air-cooled, three-phase)		HP	SEER = 13.0
Single package vertical air conditioners and	<65,000	AC	EER = 9.0
single package vertical heat pumps, single-phase and three phase		HP	EER = 9.0, COP = 3.0
Single package vertical air conditioners and	≥65,000 and <135,000	AC	EER = 8.9
single package vertical heat pumps	,	HP	EER = 8.9, COP = 3.0
Single package vertical air conditioners and	≥135,000 and <240,000	AC	EER = 8.6
single package vertical heat pumps	,	HP	EER = 8.6, COP = 2.9
Small commercial package air-conditioning	≥65,000 and <135,000	AC	EER = 11.2 (3)
and heating equipment (air-cooled)			EER = 11.0 (4)
		HP	EER = 11.0 (3)
			EER = 10.8 (4)
Large commercial package air-conditioning	≥135,000 and <240,000	AC	EER = 11.0 (3)
and heating equipment (air-cooled)			EER = 10.8 (4)
		HP	EER = 10.6 (3)
			EER = 10.4 (4)
Very large commercial package air-	≥240,000 and <760,000	AC	EER = 10.0 (3)
conditioning and heating equipment			EER = 9.8 (4)
(air-cooled)		HP	EER = 9.5 (3)
			EER = 9.3 (4)
Small commercial package air-conditioning heat pump	≥65,000 and <135,000	HP	COP = 3.3
Large commercial package air-conditioning heat pump	≥135,000 and <240,000	HP	COP = 3.2
Very large commercial package air- conditioning heat pump	≥240,000 and <760,000	HP	COP = 3.2

Note(s): EER = Energy Efficiency Ratio, COP = Coefficient of Performance. 1) Effective for products manufactured on or after January 1, 2010, except for air-cooled, three-phase small commercial package air-conditioning and heating equipment <65,000 Btu/hr for which standards are effective for products manufactured on or after June 16, 2008. 2) AC = Air Conditioner, HP = Heat Pump. 3) Applies to equipment with electric resistance heating or no heating. 4) Applies to equipment with all other integrated heating-system types.

Source(s): Title 10, Code of Federal Regulations, Part 431 - Energy Efficiency Program for Certain Commercial and Industrial Equipment, Subpart F - Commercial Air Conditioners and Heat Pumps. January 1, 2010.